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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/683,605	09/683,605 01/24/2002		Steven Yellin Schondorf	201-0378 FAM	201-0378 FAM 9340	
28549	7590	07/30/2004		EXAMINER		
KEVIN G. M ARTZ & ART		A	HERNANDEZ, OLGA			
28333 TELEGRAPH ROAD, SUITE 250				ART UNIT	PAPER NUMBER	
SOUTHFIELD, MI 48034				3661		

DATE MAILED: 07/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	09/683,605	SCHONDORF ET AL.				
Office Action Summary	Examiner	Art Unit				
	Olga Hernandez	3661				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) dwill apply and will expire SIX (6) MONTHS fro	timely filed  ays will be considered timely.  m the mailing date of this communication.				
Status						
1) Responsive to communication(s) filed on 01 Ju	ıne 2004.					
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E						
Disposition of Claims						
4) Claim(s) <u>4-9,12-15,22-26</u> is/are pending in the	application					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>9 and 22</u> is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	·					
	_					
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) acce	_					
Applicant may not request that any objection to the o						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:	,					
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau		· ·				
* See the attached detailed Office action for a list of	of the certified copies not receiv	red.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summar					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [	Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal 6)  Other:	Patent Application (PTO-152)				
U.S. Patent and Trademark Office		art of Paper No./Mail Date 20040726				

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### **DETAILED ACTION**

# Response to Arguments/Amendment

Applicant's arguments have been fully considered but they are not persuasive.

# Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 4-6, 12, 14, 15, 23-25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Byon (5,847,472) in view of Okada (2002/0091474).

As per claims 4, 12, 14, 24 and 25, Byon teaches:

- a memory device for storing a deployment time of a deployment event (column 7, lines 1-2); and
- a controller electrically coupled to the memory device (figure 1), the
  controller determining when to deploy a restraint and storing the
  deployment time, the fault time indicative of a fault within a
  component selected from at least one of the RCM and the at least one
  impact sensor (column 6, lines 64-67 and abstract);
- fault time, start time, duration time and end time (column 6, lines 64-67).

Byon does not teach a comparator coupled to the controller for comparing the deployment time with the fault a fault time and determining whether the fault time

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corresponds with the deployment time. However, Okada teaches tracking down the relationship between the operation state of the airbag and the failure of the operation control section of the airbag (paragraph [0006]). Therefore, it would have been obvious to one of ordinary skill in the art to combine the aforementioned inventions in order to track down the cause of the collision with small memory capacity.

As per claims 15, 23 and 26, Byon teaches sensing a collision (column 6, line 42); generating a collision signal in response to the collision (column 6); deploying a restraint in response to the collision (column 7); storing the deployment time (column 6, lines 64-67) and continuously indicating a fault in response to the deployment event (column 7). Neither of the prior art teaches the memory device that is unearasable, unresettable and unoverwritable. However, it would have been obvious to one of ordinary skill in the art to substitute a storage device for another storage device in order to make sure that the information will not be lost.

As per claim 5, Byon does not teach indicating when a deployment time corresponds with a fault time. However, Okada teaches track down the relationship between the operation state of the airbag and the failure of the operation control section of the airbag (paragraph [0006]). Moreover, Okada teaches the data indication no matter the situation (paragraph [0007]).

As per claim 6, neither Byon nor Okada teaches the indicator disclosed by the applicant. However, Okada teaches the data indication no matter the situation (paragraph [0007]). Therefore, it would have been obvious to one of ordinary skill in the art to substitute any means for another means to perform the same function.

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3. Claims 7, 8, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Byon (5,847,472) in view of Otsu (6,231,075).

As per claims 7 and 8, Byon teaches:

- a memory device for storing a deployment time of a deployment event (column 7, lines 1-2); and
- a controller electrically coupled to the memory device (figure 1), the controller determining when to deploy a restraint and storing the deployment time (column 6, lines 64-67).

Byon does not teach an indicator electrically coupled to the controller, the indicator continuously indicating that the RCM has been on a vehicle that has been involved in a collision, until such time when the RCM is serviced or replaced. However, Otsu teaches a controller continuous monitoring the waveform of the collision signal provided by the collision sensor after the first squib has been initiated (column 5, line 17-31). Further, it would have been obvious to one of ordinary skill in the art that it will keep doing so until is replaced or get some kind of service. Therefore, it would have been obvious to one of ordinary skill in the art to combine the aforementioned inventions in order to provide an automotive airbag inflator for controlling an inflating speed of an airbag according to an intensity of an impact in dependency on collision modes of the vehicle against an obstacle.

As per claim 13, Byon does not teach an indicator electrically coupled to the controller, the indicator continuously indicating that the RCM has been on a vehicle that has been involved in a collision, until such time when the RCM is serviced or replaced. However, Otsu teaches a controller continuous monitoring the waveform of the collision

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signal provided by the collision sensor after the first squib has been initiated. Further, it would have been obvious to one of ordinary skill in the art that it will keep doing so until is replaced or get some kind of service. Therefore, it would have been obvious to one of ordinary skill in the art to combine the aforementioned inventions in order to provide an automotive airbag inflator for controlling an inflating speed of an airbag according to an intensity of an impact in dependency on collision modes of the vehicle against an obstacle.

#### Allowable Subject Matter

Claims 9 and 22 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: no prior art teaches storing the restraint power draw value during the deployment event.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olga Hernandez whose telephone number is (703) 305-0918. The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William A. Cuchlinski can be reached on (703) 308-3873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Olga Hernandez Examiner Art Unit 3661